

**1.5.5 U.S. Electric Power Sector Cumulative Power Plant Additions Needed to Meet Future Electricity Demand (1)**

<u>Electric Generator</u>	<u>Typical New Plant Capacity (MW)</u>	<u>Number of New Power Plants to Meet Demand</u>			
		<u>2005</u>	<u>2010</u>	<u>2020</u>	<u>2025</u>
Coal Steam	550	1	12	94	203
Combined Cycle	400	109	125	269	313
Combustion Turbine/Diesel	160	76	116	338	420
Nuclear Power (2)	1000	0	0	0	0
Pumped Storage (2)	133 (3)	0	0	0	0
Fuel Cells	10	0	5	5	5
Conventional Hydropower	29 (3)	10	14	14	14
Geothermal	50	0	23	63	79
Municipal Solid Waste	30	6	14	15	15
Wood and Other Biomass	80	1	5	15	24
Solar Thermal	100	1	1	2	2
Solar Photovoltaic	5	9	26	60	78
<u>Wind</u>	50	37	64	171	223
<b>Total</b>		<b>248</b>	<b>404</b>	<b>1046</b>	<b>1376</b>
 Distributed Generation	 2	 0	 3	 47	 77

Note(s): 1) Cumulative additions after December 31, 2002. 2) EIA projects no new power plants will be constructed through 2025. However, it is expected that the capacity of existing units will increase. 3) Based on current stock averaged capacity.

Source(s): EIA, AEO 2004, Jan. 2004, Table A9, p. 147-148 and Table A17, p. 156; EIA, Assumption to the AEO 2004, Jan. 2004, Table 38, p. 71; EIA, Electric Power Annual 2002, Dec. 2003, Table 2.6, p. 18; and EIA, Inventory of Electric Utility Power Plants in the U.S. 2000, March 2002, Table 1, p. 9.